Resolve Environmental Services, PLLC

410 East Franklin Street Monroe, North Carolina 28112 (704) 289-5881 phone (704) 292-2910 fax www.resolvepllc.com

September 17, 2014

Ms. Jacqueline Smith 539 Baltimore Road Warrenton, NC 27589

Re:

Water Supply Well Sampling Results

539 Baltimore Road, Warrenton, NC

Dear Ms. Smith:

This letter is to inform you of the recent water supply well (WSW-1) sampling results conducted on August 25, 2014. Resolve Environmental Services, PLLC (Resolve) has been contracted by the Warren County Solid Waste Department to conduct semi-annual ground water sampling activities at their facility. The water supply well connected to your residence was included in the sampling schedule.

A concentration of zinc (30.2 μ g/L) was reported in the ground water sample. The concentration of zinc does not exceed the North Carolina Ground Water Quality Standards (NCGWQS) (2,100 μ g/L). No other detectable concentrations of requested method constituents were reported in the ground water sample. A copy of the applicable analytical report has been included as an attachment. This information has been submitted to the NCDENR Solid Waste Section and will be maintained in their files.

As part of the ongoing sampling schedule at Warren County Landfill, WSW-1 is scheduled to be sampled again in February 2015. The analytical results will be forwarded to you following the receipt of the analytical report. If you have any questions, please call me at (704) 289-5881.

Sincerely,

Laura Minor

cc: Mr. Ervin Lane, NCDENR-Division of Waste Management/Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646

Mr. Marshall Brothers, Warren County Solid Waste Department, 559 Baltimore Road, Warrenton, North Carolina 27589

attachment

Resolve Environmental Services, PLLC

410 East Franklin Street Monroe, NC 28112 (704) 289-5881 phone (1-704) 919-5616 e-fax www.resolvepllc.com

September 17, 2014

Mr. Ervin Lane Compliance Hydrogeologist NCDENR Division of Waste Management Solid Waste Section 1646 Mail Service Center Raleigh, North Carolina 27699-1646

Re: Second Semi-Annual 2014 Ground Water Monitoring Event

Warren County Closed Sanitary Landfill

Warrenton, North Carolina Facility Permit# 93-01 Resolve Project No 765.21

Dear Mr. Lane:

Please find the attached Second Semi-Annual 2014 Ground Water Monitoring Report conducted at the Warren County Closed Sanitary Landfill in August 2014. Also included in this package is a copy of the "Water Supply Well Sampling Results" letter based on the August 2014 sampling of the water supply well located at 539 Baltimore Road. Please note that the original Environmental Monitoring Reporting Form associated with the August 2014 sampling event will be mailed to you separately. You should receive it in the following week. Please call if you have any questions or require any additional information at (704) 289-5881.

Sincerely,

Laura Minor Project Manager

enclosures

Resolve Environmental Services, PLLC

410 East Franklin Street Monroe, NC 28112 (704) 289-5881 phone (1-704) 919-5616 e-fax

September 17, 2014

Mr. Marshall Brothers Warren County Solid Waste Department 559 Baltimore Road Warrenton, North Carolina 27589

Re:

Second Semi-Annual 2014 Ground Water Monitoring Event Warren County Closed Sanitary Landfill Warrenton, North Carolina Resolve Project No. 765.21

Dear Mr. Brothers:

Resolve Environmental Services, PLLC (Resolve) respectfully presents results of the second semi-annual 2014 ground water monitoring event conducted at the Warren County Closed Sanitary Landfill (CSL) located in Warrenton, North Carolina (Figure 1). The ground water monitoring activities were conducted in general accordance with North Carolina Department of Environment and Natural Resources' (NCDENR), Division of Solid Waste Management guidelines.

Gauging and Sampling

On August 25, 2014, Resolve personnel collected ground water samples from on-site monitoring wells MW-1A, MW-2, MW-3, and MW-4. In addition, three surface water samples (SW-1, SW-2 and SW-3) were collected along the tributary of Possumquarter Creek during the August 2014 sampling event. A water quality sample was also collected from the nearby water supply well (WSW-1) located on the adjacent residential property to the northwest (539 Baltimore Avenue). A site map is provided as **Figure 2**.

Prior to collecting ground water samples from the monitoring wells, water levels were measured in each well from the top of the well casing. Based on the depth to water gauging data, Resolve personnel calculated the volume of standing water in each monitoring well. For quality control purposes, one equipment blank was collected prior to the initiation of ground water sampling activities by passing distilled water provided by the laboratory through a clean, TeflonTM bailer. Each well was purged of at least three well volumes or until bailed dry using a new, disposable TeflonTM bailer. As generated, the purge water was discharged to the ground surface at the respective wellheads. Prior to sample collection, field parameters for temperature, pH, and specific conductance were measured using calibrated field instrumentation. Well gauging data and measured field parameters are summarized in **Table 1**. The surface water samples were collected using grab sample techniques. All collected samples were placed directly into laboratory supplied glassware and placed on ice for transport to a North Carolina certified laboratory for analyses.

The collected ground water samples and equipment blank were analyzed for the presence of Appendix I volatile organic compounds (VOCs) including tetrahydrofuran by EPA Method 8260B and Appendix I metals by EPA Method 6010, as required by the NCDENR. The samples were analyzed by Accutest Laboratories, LLC (Accutest) of Orlando, Florida. Accutest is a North Carolina certified laboratory. A trip blank was also submitted to the laboratory for analysis of Appendix I VOCs by Method 8260B.

Results

Based upon the laboratory analytical report, detectable concentrations of Appendix I VOCs and/or metals were reported in each of the collected samples as summarized below.

MW-1A:

Detectable concentrations of lead and zinc were reported in the ground water sample collected from MW-1A. The concentrations did not exceed the North Carolina ground water quality standards (NCGWQS) established in T15A NCAC 2L.0202.

MW-2:

Detectable and/or estimated concentrations of benzene, p-dichlorobenzene, cis-1,2-dichloroethylene, cobalt, barium, lead and zinc were reported in the ground water sample collected from MW-2. None of concentrations exceeded the NCGWQS, if established. Currently, there is no NCGWQS established for cobalt; therefore, the concentration is reportable.

MW-3:

Detectable and/or estimated concentrations of benzene, chlorobenzene, chloroethane, p-dichlorobenzene and cis-1,2-dichloroethylene were reported in the ground water sample collected from MW-3. None of the reported concentrations exceeded the established NCGWQS, if established. Currently, there is no NCGWQS established for chloroethane; therefore, the concentration is reportable.

MW-4.

Detectable and/or estimated concentrations of benzene, chlorobenzene, chloroethane, 1,1-dichloroethane, cis-1,2-dichloroethylene and tetrahydrofuran were reported in the ground water sample from MW-4. None of the reported concentrations exceeded the NCGWQS, if established. Currently, there is no NCGWQS established for tetrahydrofuran; therefore, the concentration is reportable.

WSW-1:

A detectable concentration of zinc below the NCGWQS was reported in the ground water sample collected from water supply well WSW-1. The concentration did not exceed the NCGWQS.

SW-1:

Detectable and/or estimated concentrations of benzene, cis-1,2-dichloroethylene and zinc was reported in the surface water sample collected from SW-1. The concentrations do not exceed the NCGWQS.

SW-2:

No detectable concentrations of requested method constituents were reported in the surface water sample collected from SW-2.

SW-3:

No detectable concentrations of requested method constituents were reported in the surface water sample collected from SW-3.

Warren County Closed Sanitary Landfill Second Semi-Annual 2014 Monitoring Event

Equipment Blank:

No detectable concentrations of requested method constituents were reported in the equipment blank.

Trip Blank:

No detectable concentrations of requested method constituents were reported in the trip blank.

The current laboratory analytical results are summarized in **Table 2**. Historical laboratory data is summarized in **Table 3**. A copy of the laboratory analytical report is attached as **Appendix A**. An environmental monitoring NCDENR report form is enclosed as **Appendix B**.

Based upon the current sampling data, no ground water quality violations exist at the site. The next scheduled sampling event will be conducted in February 2015.

Please call if you have any questions or require any additional information at (704) 289-5881.

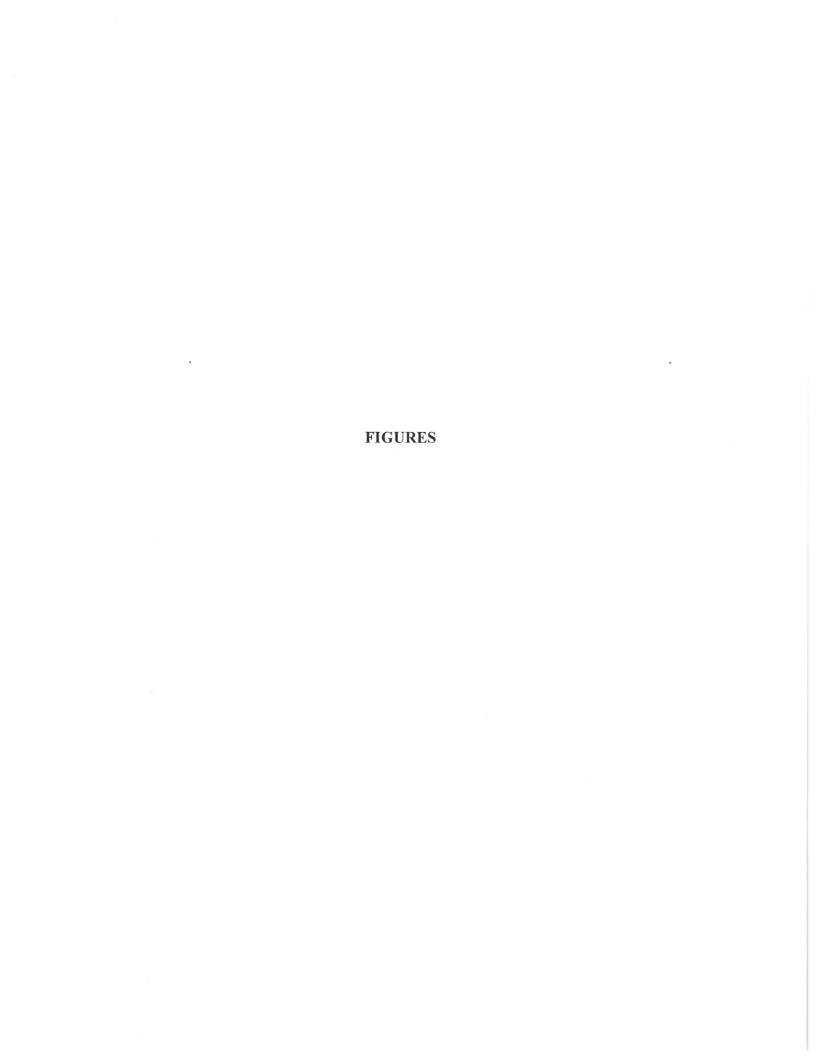
Sincerely,

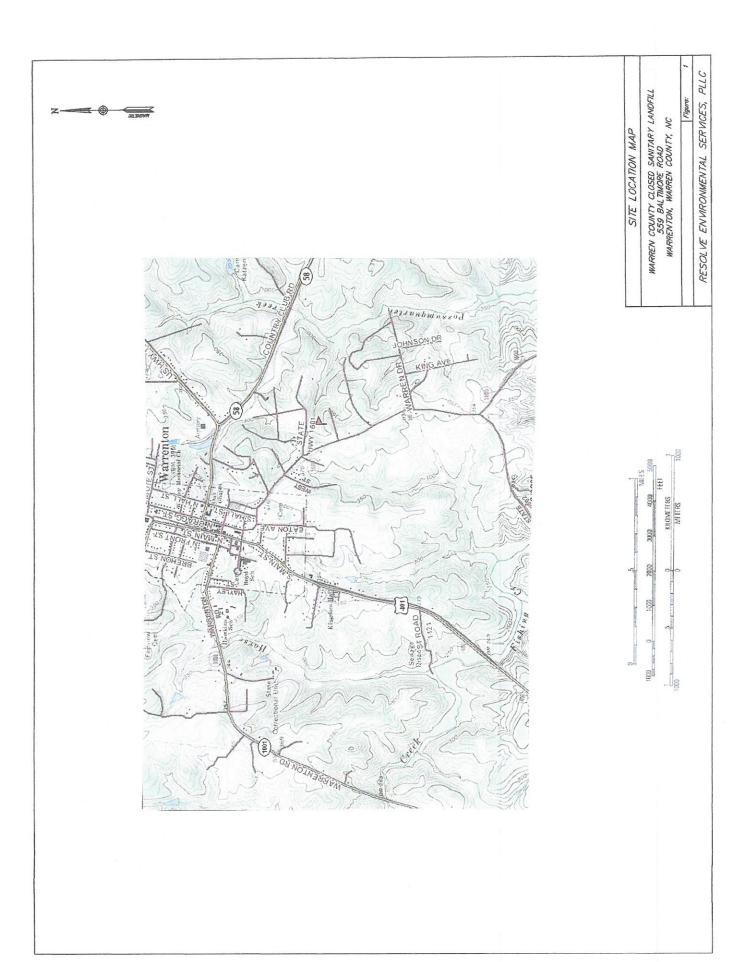
Laura Minor Project Manager

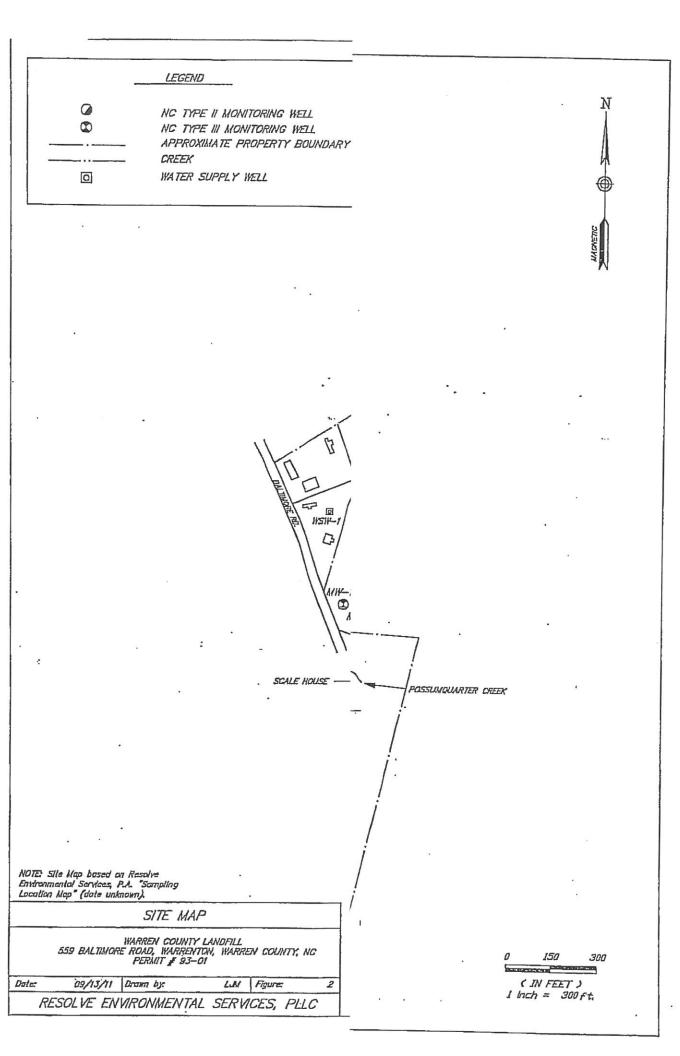
Terry D. Kennedy, P.G.

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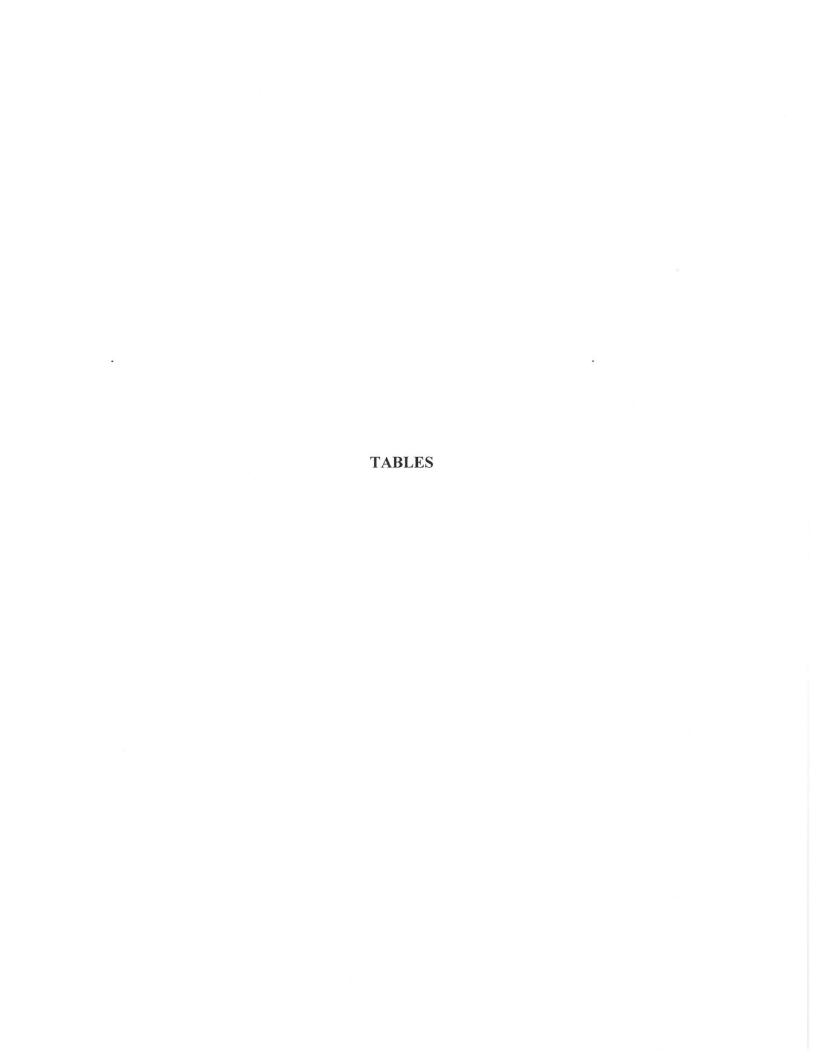


TABLE 1 MONITORING WELL GAUGING AND FIELD PARAMETER DATA WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

Sample Location	Total Well Depth (feet)	Depth to Water (feet)	Temperature (in C)	pН	Specific Conductance (µS/cm)	Volume Purged (gals)
MW-1A	40.83	34.06	16.86	5.90	125	3.75
MW-2	15.70	8.14	15.32	6.13	313	3.75
MW-3	28.86	5.89	14.91	6.01	182	12.00
MW-4	22.00	4.14	15.84	6.29	334	9.00

Notes:

- Gauging and field parameters collected on August 25, 2014 by Resolve personnel.
- All measurements relative to the top of well casing.

Page 1 of 1

TABLE 2 SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

		əniS	2,100	43.0	64.2	<20	<20	27.1	<20	<20	30.2	<20	NR
I - 6010		ьвэЛ	15	5.5	13.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NR
Appendix I - 6010		muirsa	200	<200	232	<200	<200	<200	<200	<200	<200	<200	NR
		Cobalt	SN	<50	72.7	<50	<50	<50	<50	<50	<50	<50	NR
		SN	<1.3	<1.3	<1.3	6.2	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	
	əuə	cis-1,2-Dichloroethyl	70	<0.33	1.7	4.2	1.9	1.4	<0.33	<0.33	<0.33	<0.33	<0.33
8260	ê	p-Dichlorobenzene			2.3	2.5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Appendix I - 8260	e	1,1-Dichloroethan	9	<0.26	<0.26	<0.26	0.53J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Api		Chloroethane	SN	<0.50	<0.50	3.2	0.59J	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
		Chlorobenzene	90	<0.24	<0.24	1.1	0.56J	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
		Benzene	1	<0.24	0.623	0.65J	0.27J	0.35J	<0.24	<0.24	<0.24	<0.24	<0.24
thod →	Concern >	Date Collected (mm/dd/yy)		08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14	08/25/14
Analytical Method	Contaminant of Concern	Well ID	NCGWQS (vg/L)	MW-1A	MW-2	MW-3	MW-4	SW-1	SW-2	SW-3	WSW-1	Equipment Blank	Trip Blank

Notes:

- Results reported in µg/L (micrograms per liter)
- NCGWQS: North Carolina Ground Water Quality Standard as specified in T15A NCAC 2L .0202.
 - < : Less than the method detection limit specified in the laboratory report.
- · NS: Not specified.
- J: Estimated concentration.
- · NR: Analysis not requested.

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

Analytical M				Apper 6010	7470						
Contaminant of	Concern →		ی		ene/	ane	hene	an			
Well ID	Date Collected (mm/dd/yy)	Вепzепе	Chlorobenzene	Chloroethane	1,4-Dichlorobenzene/ p-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Tetrahydrofuran	Chromium	Lead	Mercury
NCGWQ	S (vg/L)	1	50	NS	6	6	70	NS	10	15	1881
	8/10/2006	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	15	NR
	2/22/2007	1.4	<1.0	<1.0	<1.0	<1.0	2.5	NR	33	61	NR
	8/27/2007	1.3	<1.0	<1.0	1.4	<1.0	2.6	<10.0	<5.0	<5.0	< 0.20
	2/27/2008	1.7	<1.0	<1.0	1.9	<1.0	3.0	<10.0	<5.0	<5.0	< 0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	15.2	25.5	< 0.20
	2/25/2009	1.2	<1.0	<1.0	2.2	<1.0	2.5	<10.0	8.1	14.8	0.21
	8/19/2009	1.52	<1.00	<1.00	1.91	<1.00	2.27	<20.0	< 5.00	< 5.00	< 0.20
	2/8/2010	1.41	< 0.210	< 0.270	2.22	< 0.240	2.77	NR	3.72	4.66	0.101
MW-1A	8/12/2010	1.29	< 0.210	< 0.270	2.23	< 0.240	2.56	<1.00	5.10	10.5	< 0.080
	2/16/2011	0.839 J	< 0.210	< 0.270	1.45 .	< 0.240	1.62	<1.00	31.3	57.1	0.383
	8/23/2011	0.88 J	< 0.20	< 0.50	1.1	< 0.25	2.1	<2.0	<10	5.3	NR
	2/17/2012	1.2	< 0.20	<0.50	1.9	< 0.25	2.3	<2.0	20.3	38.6	NR
	8/27/2012	1.4	< 0.20	< 0.50	2.4	< 0.25	2.6	<2.0	10.3	17.8	NR
	2/14/2013	1.3	< 0.20	< 0.50	< 0.20	< 0.21	2.6	<1.0	<10	12.8	NR
	8/13/2013	0.90 J	< 0.20	< 0.50	2.5	< 0.21	2.4	<1.0	<10	<5.0	NR
	2/11/2014	0.91 J	< 0.24	< 0.50	2.2	< 0.26	1.9	<1.3	<10	15.5	NR
	8/25/2014	< 0.24	< 0.24	< 0.50	< 0.20	< 0.26	< 0.33	<1.3	<10	5.5	NR
	8/10/2006	1.5	<1.0	9.2	4.3	<1.0	10	NR	<10	<10	NR
	2/22/2007	1.3	1.1	7.8	3.8	<1.0	8.1	NR	<5.0	<5.0	NR
	8/27/2007	1.1	1.6	6.9	2.9	<1.0	8.2	<10.0	< 5.0	<5.0	< 0.20
	2/27/2008	1.6	1.9	7.3	4.7	<1.0	9.9	<10.0	<5.0	<5.0	< 0.20
	8/26/2008	<1.0	<1.0	4.6	2.8	<1.0	5.5	19.1	<5.0	<5.0	< 0.20
	2/25/2009	1.5	1.7	9.7	5.4	<1.0	10.2	<10.0	<5.0	<5.0	< 0.20
	8/19/2009	1.21	1.48	7.50	3.15	<1.00	6.27	<20.0	< 5.00	<5.00	< 0.20
	2/8/2010	0.837	1.07	5.62	2.70	0.372	5.76	NR	<2.00	<3.00	< 0.080
MW-2	8/12/2010	1.49	2.01	8.34	4.22	0.797	9.49	<1.00	<2.00	1.92	< 0.080
	2/16/2011	1.25	2.00	6.22	3.72	0.670 J	7.14	<1.00	<2.00	<1.50	< 0.080
	8/23/2011	0.65 J	1.3	3.9	2.1	0.33 J	4.5	<2.0	<10	8.7	NR
	2/17/2012	1.6	2.0	7.2	4.3	0.97 J	9.5	<2.0	<10	<5.0	NR
	8/27/2012	0.66 J	1.0	1.8 J	2.0	0.33 J	3.3	<2.0	<10	6.1	NR
	2/14/2013	1.5	2.0	9.0	4.8	0.96 J	9.1	<1.0	<10	<5.0	NR
	8/13/2013	2.6	2.9	10.0	6.6	1.3	15.2	<1.0	<10	22.3	NR
	2/11/2014	1.7	2.0	9.0	5.1	0.77 J	10.2	<1.3	<10	<5.0	NR

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

Analytical Mo	ethod →			Ap	pendix I - 8	3260				ndix I - /200.7	7470	
Contaminant of (Date Collected (mm/dd/yy)	Benzene	Chlorobenzene	Chloroethane	1,4-Dichlorobenzene/ p-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Tetrahydrofuran	Chromium	Lead	Mercury	
NCGWQS	S (ng/L)	1	50	NS	6	6	70	NS	10	15	1	
nedrige	8/10/2006	<1.0	<1.0	<1.0	<1.0	2.4	2.8	NR	<10	<10	NR	
	2/22/2007	<1.0	<1.0	<1.0	<1.0	2.6	3.9	NR	<5.0	<5.0	NR	
	8/27/2007	<1.0	<1.0	2.3	<1.0	2.3	4.4	17.2	<5.0	<5.0	0.23	
	2/27/2008	<1.0	<1.0	1.20	1.10	2.4	5.5	27.0	<5.0	<5.0	<0.20	
	8/26/2008 2/25/2009	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	1.7	2.6 3.8	19.1	<5.0 <5.0	<5.0 <5.0	<0.20	
	8/19/2009	<1.00	<1.00	1.29	<1.00	1.67	3.46	26.3	<5.00	<5.00	<0.200	
	2/8/2010	0.514	0.817	1.05	0.996	1.61	3.96	NR	3.12	<1.50	< 0.0800	
MW-3	8/12/2010	0.413	0.544	< 0.270	0.853	1.65	3.08	15.2	2.83	2.08	< 0.0800	
	2/16/2011	0.369 J	0.642 J	0.764 J	0.800 J	1.30	2.87	15.6 .	2.26 J	<1.50	< 0.0800	
	8/23/2011	0.30 J	0.64 J	<0.50	0.63 J	0.92	2.4	15.4	<10	<5.0	NR	
	2/17/2012 8/27/2012	0.35 J 0.32 J	0.62 J 0.66 J	0.68 J <0.50	0.71 J 0.66 J	0.80 J 0.67 J	2.5	14.0	<10 <10	<5.0 <5.0	NR NR	
	2/14/2013	0.32 J 0.41 J	0.60 J	1.6 J	0.06 J	0.67 J	2.3	8.8	<10	<5.0	NR	
	8/13/2013	0.41 J	0.67 J	0.58 J	0.79 J	0.78 J	2.5	8.0	<10	<5.0	NR	
	2/11/2014	0.32 J	0.67 J	< 0.50	0.68 J	0.63 J	2.0	7.4	<10	<5.0	NR	
	8/25/2014	0.65 J	1.1	3.2	2.5	< 0.26	4.2	<1.3	<10	<5.0	NR	
	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR	
	2/22/2007 8/27/2007	<1.0	<1.0 <1.0	<1.0 <1.0	<1.0 <1.0	<1.0	<1.0	NR <10.0	<5.0 13.0	<5.0 <5.0	NR <0.20	
	2/27/2008	<1.0 <1.0	<1.0	<1.0	<1.0	<1.0 <1.0	<1.0 <1.0	<10.0	22.5	<5.0	<0.20	
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	63.3	15.6	<0.20	
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	7.9	<5.0	< 0.20	
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	12.2	<5.00	< 0.200	
	2/8/2010	0.250	< 0.210	< 0.270	< 0.250	0.401	0.599	NR	14.4	<1.50	< 0.0800	
MW-4	8/12/2010	0.295	<0.210	<0.270	<0.250	<0.240	0.715	<1.00	10.4	3.27	<0.0800	
	2/16/2011 8/23/2011	0.250 J 0.22 J	<0.210	<0.270 <0.50	<0.250 <0.23	0.346 J 0.25 J	0.607 J 0.47 J	<1.00 <2.0	6.65 J 180	<1.50 30.3	<0.0800 NR	
	2/17/2012	0.22 J	<0.20	<0.50	<0.23	0.28 J	0.47 J	<2.0	109	15.1	NR	
	8/27/2012	0.33 J	<0.20	<0.50	< 0.23	0.32 J	0.96 J	<2.0	23.5	<5.0	NR	
	2/14/2013	0.38 J	< 0.20	< 0.50	0.31 J	0.40 J	1.4	<1.0	30.2	<5.0	NR	
	8/13/2013	0.31 J	< 0.20	< 0.50	0.31 J	0.34 J	1.4	<1.0	<10	<5.0	NR	
	2/11/2014	0.35 J	<0.24	<0.50	0.30 J	0.39 J	1.4	<1.3	<10	<5.0	NR	
	8/25/2014 8/10/2006	0.27 J <1.0	0.56 J <1.0	0.59 J <1.0	<0.20 <1.0	0.53 J <1.0	1.9 <1.0	6.2 NR	<10 <10	<5.0 94	NR NR	
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	NR	<5.0	<5.0	NR	
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20	
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20	
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	248	106	< 0.20	
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20	
	8/19/2009 2/8/2010	NR <0.140	NR <0.210	NR <0.270	NR <0.250	NR <0.240	NR <0.450	NR NR	NR <2.00	NR <1.50	NR <0.0800	
SW-1	8/12/2010	<0.140	<0.210	<0.270	<0.250	<0.240	< 0.450	<1.00	<2.00	<1.50	< 0.0800	
-800 E	2/16/2011	< 0.140	<0.210	< 0.270	< 0.250	< 0.240	< 0.450	<1.00	6.91 J	3.79	< 0.0800	
	8/23/2011	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	
	2/17/2012	<0.20	<0.20	< 0.50	< 0.23	< 0.25	<0.26	<2.0	<10	<5.0	NR	
	8/27/2012	<0.20	<0.20	<0.50	<0.23	< 0.25	<0.26	<2.0	<10	18.1	NR	
	2/14/2013	<0.21	<0.20	< 0.50	0.27 J	<0.21	0.55 J	<1.0	<10	<5.0 <5.0	NR	
	8/13/2013 2/11/2014	<0.21 <0.24	<0.20	<0.50 <0.50	0.25 J <0.20	<0.21	0.53 J <0.33	<2.0 <1.3	<10 <10	<5.0	NR NR	
	8/25/2014	0.35 J	<0.24	< 0.50	<0.20	<0.26	1.4	<1.3	<10	<5.0	NR	

TABLE 3
HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES
WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

Analytical M	lethod →			Ap	pendix I - 8	3260				ndix I - /200.7	7470
Contaminant of	Concern →		9	.,	ene/	ane	hene	an			
Well ID	Date Collected (mm/dd/yy)	Benzene	Chlorobenzene	Chloroethane	1,4-Dichlorobenzene/ p-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Tetrahydrofuran	Chromium	Lead	Mercury
NCGWQ	S (vg/L)	1	50	NS	6	6	70	NS	10	15	1
	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	49.4	79.4	0.314
	2/8/2010	< 0.140	< 0.210	< 0.270	< 0.250	< 0.240	< 0.450	NR	3.04	1.87	< 0.0800
SW-2	8/12/2010	0.143	0.240	< 0.270	0.393	< 0.240	1.14	7.77	<2.00	1.67	< 0.0800
	2/16/2011	<0.140	< 0.210	< 0.270	< 0.250	< 0.240	0.646 J	3.06	<2.00	<1.50	<0.0800
	8/23/2011	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/17/2012	<0.20	< 0.20	< 0.50	<0.23	<0.25	<0.26	<2.0	<10	5.1	NR
	8/27/2012	< 0.20	<0.20	< 0.50	<0.23	< 0.25	< 0.26	<2.0	<10	<5.0	NR
	2/14/2013	< 0.21	< 0.20	< 0.50	< 0.20	< 0.21	< 0.24	<1.0	<10	<5.0	NR
	8/13/2013	< 0.21	< 0.20	< 0.50	< 0.20	< 0.21	< 0.24	<1.0	<10	<5.0	NR
	2/11/2014	< 0.24	< 0.24	< 0.50	<0.20	< 0.26	< 0.33	<1.3	<10	<5.0	NR
	8/25/2014	< 0.24	< 0.24	< 0.50	<0.20	< 0.26	< 0.33	<1.3	<10	< 5.0	NR
	8/10/2006	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<10	<10	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	<5.0	<5.0	NR
	8/27/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	< 0.20
	2/27/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/26/2008	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	2/25/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0	<5.0	<5.0	<0.20
	8/19/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<20.0	<5.00	<5.00	<0.200
SW-3	2/8/2010	<0.140	<0.210	<0.270	<0.250	<0.240	<0.450	NR	<2.00	<1.50	<0.0800
SW-3	8/12/2010	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
	2/16/2011 8/23/2011	<0.140 DRY	<0.210 DRY	<0.270 DRY	<0.250 DRY	<0.240 DRY	<0.450 DRY	<1.00 DRY	<2.00 DRY	<1.50 DRY	<0.0800 DRY
	2/17/2012	<0.20	<0.20	<0.50	<0.23	<0.25	<0.26	<2.0	<10	<5.0	NR
	8/27/2012	<0.20	<0.20	< 0.50	<0.23	<0.25	0.26 0.35 J	<2.0	<10	<5.0	NR
	2/14/2013	<0.20	<0.20	< 0.50	<0.23	<0.23	< 0.24	<1.0	<10	<5.0	NR
	8/13/2013	<0.21	<0.20	< 0.50	<0.20	<0.21	<0.24	<1.0	<10	<5.0	NR NR
	2/11/2014	<0.21	<0.24	< 0.50	<0.20	<0.21	0.44 J	<1.0	<10	<5.0	NR NR
	8/25/2014	<0.24	<0.24	< 0.50	<0.20	<0.26	< 0.33	<1.3	<10	<5.0	NR

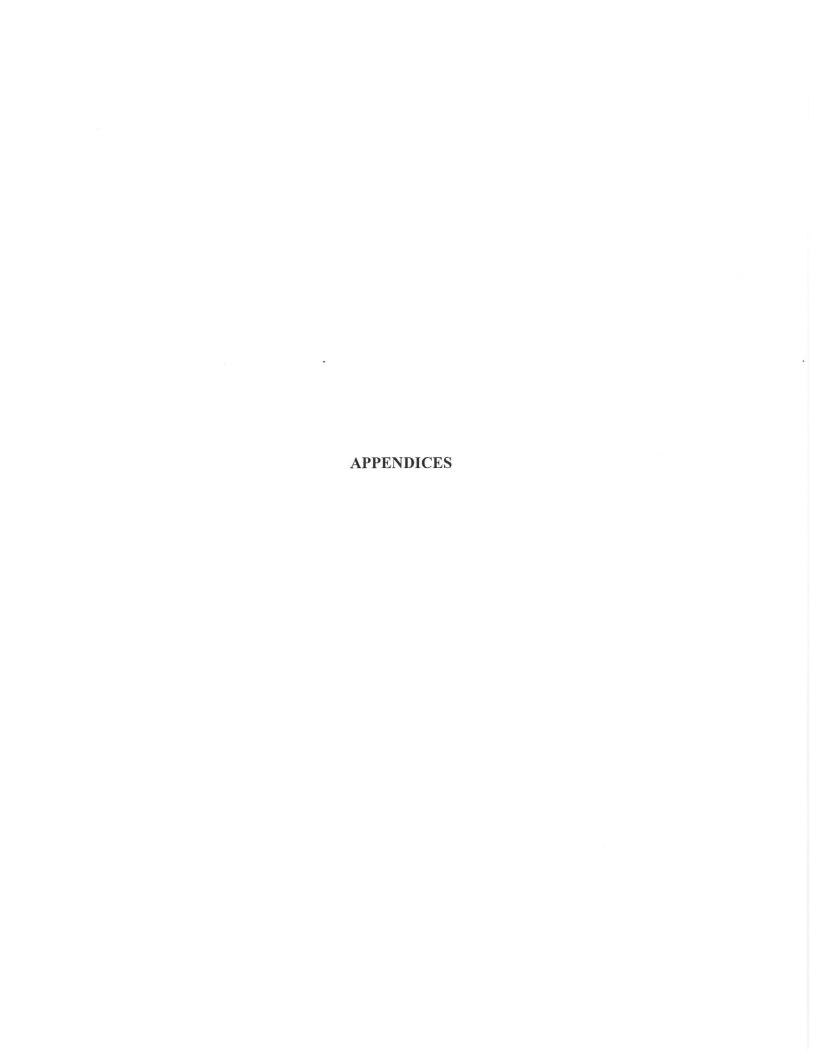
TABLE 3 HISTORICAL SUMMARY OF LABORATORY ANALYSES-GROUND WATER SAMPLES WARREN COUNTY CLOSED SANITARY LANDFILL

Date: 8/26/14

Analytical Met	hod →			Appe 6010	7470						
Contaminant of Concern →			9		ene/	ane	hene	E E			
Well ID	Date Collected (mm/dd/yy)	Benzene	Chlorobenzene	Chloroethane	1,4-Dichlorobenzene/ p-Dichlorobenzene	1,1-Dichloroethane	cis-1,2-Dichloroethene	Tetrahydrofuran	Chromium	Lead	Mercury
NCGWQS ((vg/L)	1	50	NS	6	6	70	NS	10	15	1
	8/10/2006	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/22/2007	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NR	< 5.0	<5.0	NR
	8/27/2007	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/27/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/26/2008	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/25/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	8/19/2009	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	2/8/2010	< 0.140	< 0.210	< 0.270	< 0.250	< 0.240	< 0.450	NR	<2.00	4.29	0.272
WSW-1/WS/WSW	2/25/2010	< 0.140	< 0.210	< 0.270	< 0.250	< 0.240	< 0.450	NR	<2.00	<1.50	0.338
11011 1110111011	8/12/2010	< 0.140	< 0.210	< 0.270	< 0.250	< 0.240	< 0.450	<1.00	<2.00	2.19	0.225
	2/16/2011	<0.140	< 0.210	< 0.270	< 0.250	< 0.240	< 0.450	0.186	<2.00	<1.50	0.242
	8/23/2011	< 0.20	< 0.20	< 0.50	< 0.25	< 0.25	< 0.26	<2.0	<10	<5.0	NR
	2/17/2012	< 0.20	< 0.20	< 0.50	< 0.23	< 0.25	< 0.26	<2.0	<10	<5.0	NR
	8/27/2012	< 0.20	< 0.20	< 0.50	< 0.23	< 0.25	<0.26	<2.0	<10	<5.0	NR
	2/14/2013	< 0.21	< 0.20	< 0.50	< 0.20	< 0.21	< 0.24	<1.0	10.1	<5.0	NR
	8/13/2013	< 0.21	< 0.20	< 0.50	< 0.20	< 0.21	< 0.24	<1.0	<10	<5.0	NR
	2/11/2014	< 0.24	< 0.24	< 0.50	< 0.20	< 0.26	< 0.33	<1.3	<10	< 5.0	NR
	8/25/2014	< 0.24	< 0.24	< 0.50	< 0.20	< 0.26	< 0.33	<1.3	<10	< 5.0	NR

Notes:

- Results reported in $\mu g/L$ (micrograms per liter) .
- NCGWQS: North Carolina Ground Water Quality Standard as specified in T15A NCAC 2L .0202.
- <: Less than the method detection limit specified in the laboratory report.
- · NR: Analysis not requested or sample was not collected.
- · NS: Not specified.
- Concentrations in bold face type exceeded the 2L standard.
- Concentrations of tetrachloroethene (0.254 μg/L and 0.357 μg/L, respectively) were reported in MW-3 and WSW-1 on 2/8/2010; a concentration of tetrachloroethene (0.189 J ug/L) was reported in MW-3 on 2/16/11; concentrations of trichloroethylene (0.37 J ug/L and 0.40 J ug/L, respectively) were reported in MW-1A and MW-2 on 2/17/12; a concentration of beryllium (6.5 ug/L) was reported in MW-1A on 2/17/12; a concentration of toluene (0.22 J μg/L) was reported in surface water sample SW-3 on 8/27/12; concentrations of ethylbenzene (0.37 J μg/L), toluene (0.23 J μg/L) and barium (230 μg/L) reported in the sample collected from MW-2 on 8/13/13; a concentration of zinc (43.0 μg/L) was reported in the sample collected from MW-1A on 8/25/14; concentrations of cobalt (72.7 μg/L) and zinc (64.2 μg/L) were reported in the sample collected from MW-2 on 8/25/14; concentrations of zinc were reported in samples SW-1 (27.1 μg/L) and WSW-1 (30.2 μg/L) on 8/25/14.
- J: Estimated concentration.



APPENDIX A
Laboratory Analytical Report – Ground Water Samples

APPENDIX B
Environmental Monitoring NCDENR Report Form

DENR USE ONLY: Paper Rep	oort Electronic Data - Email CD	(data loaded: Yes / No)	Doc/Event	
NC DENR	ant Calid Masta		Enviro	nmental Monitoring
Division of Waste Managem	ion attached to it are "Public Records"	an defined in NC Caper	ral Statuta 132-1 As su	Reporting Form
Notice: This form and any informat available for inspection and examin	ation by any person upon request (NC	General Statute 132-6).	al Statute 132-1. As so	ion, these documents are
Instructions:				
- Please type or print legi	ich individually monitored unit.			
 Attach a notification table 	with values that attain or exceed NC y analysis of the cause and significant	2L groundwater standard	ds or NC 2B surface was	ater standards. The notification
condition etc.)				3 Source, pre existing
Attach a notification table Attach a notification table	of any groundwater or surface water versions of any methane gas values that attain	values that equal or excer	ed the reporting limits. is levels. This includes	any structures on or nearby the
facility (NCAC 13B 1629	(4)(a)(i)			
Send the original signed	and sealed form, any tables, and Electer Center, Raleigh, NC 27699-1646.	ctronic Data Deliverable t	o: Compliance Unit, NC	DENR-DVVIVI, Solid vvaste
Solid Waste Monitoring Da	ata Submittal Information aboratory, consultant, facility owner	r):		
		.,.		
Resolve Environmental Service	s, PLLC			
Contact for questions about data	formatting. Include data preparer's	s name, telephone num	ber and E-mail addres	s:
Name: Laura Minor	Ph	one: 704-289-5881		
E-mail: resolve@carolina.rr.com				
			NC Landfill Rule:	Actual sampling dates (e.g.,
Facility name:	Facility Address:	Facility Permit #	(.0500 or .1600)	October 20-24, 2006)
Warren County Landfill	S.R. 1600/559 Baltimore Road	93-01	.1600	August 25, 2014
Waller County Editorii	Warrenton, NC			
Environmental Status: (Check al	I that apply)			
Initial/Background Monitoring	ng Detection Monitoring	X Assessment	Monitoring	Corrective Action
Type of data submitted: (Check a School Check a Groundwater monitoring data)	ill that apply)	Methane gas mo	nitoring data	
X Groundwater monitoring da	ta from private water supply wells	Corrective action	n data (specify)	
Leachate monitoring data X Surface water monitoring d	ata	Other(specify)		
	•			•
Notification attached? No. No groundwater or surf	ace water standards were exceeded.			
Yes a notification of values	s exceeding a groundwater or surface nalytical values, NC 2L groundwater sta	water standard is attached	ed. It includes a list of gater standard or NC So	groundwater and surface water
preliminary analysis of the o	cause and significance of any concentr	ation.		
Yes, a notification of values values and explosive metha	s exceeding an explosive methane gas	s limit is attached. It inclu	udes the methane mon	itoring points, dates, sample
values and explosive metric	ine gas inines.			
Certification	ne information reported and statem	ents made on this data	submittal and attack	ments are true and correct.
Furthermore I have attached co	malete notification of any sampling	g values meeting or ex	ceeding groundwater	standards or explosive gas
lovale and a proliminary analysi	s of the cause and significance of a ing any false statement, representat	concentrations exceedi	ng groundwater stand	dards. I am aware that there
	Public Works Direct		57-1948	distribution — State Bracker (1996) de Paris State (1996) de Paris State (1996) de Paris de Paris (1996) de P
Marshall Brothers	Title	01	Tode) Telephone Number	r
Facility Representative Name (Print)	THE	,,,,,,		/ Professional Geologist Seal
Signature		Date		
organical C			N 09.	ZENSZ SZÓ
559 Baltimore Road, Warrenton, NC	27589		1 87/0	

Facility Representative Address

NC Geological Co. C-416 (Resolve Environmental Services, PLLC): Terry Kennedy

NC PE Firm License Number (if applicable effective May 1, 2009)